


Compu-DAWN, Inc.

**Data
Access &
Wireless
Network**



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Compu-DAWN

Software Solutions
for Public Safety.

A Fully Integrated
Information Management System.



Our Mission

- To be the premier provider of Software Solutions and Communications Technology for Public Safety.

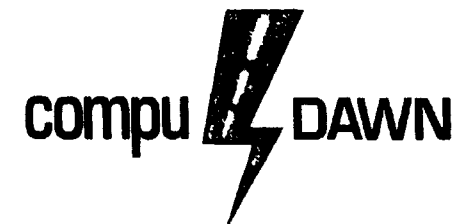
- ◆ Law Enforcement
- ◆ Fire
- ◆ EMS



The U.S. Market

- The U.S. Market 21,860 police departments
- 35,690 fire departments
- All EMS and other public safety agencies

Fewer than 20% are computerized



High Tech Cops

Bringing the resources of headquarters to patrol cars

Computer and Software Technology

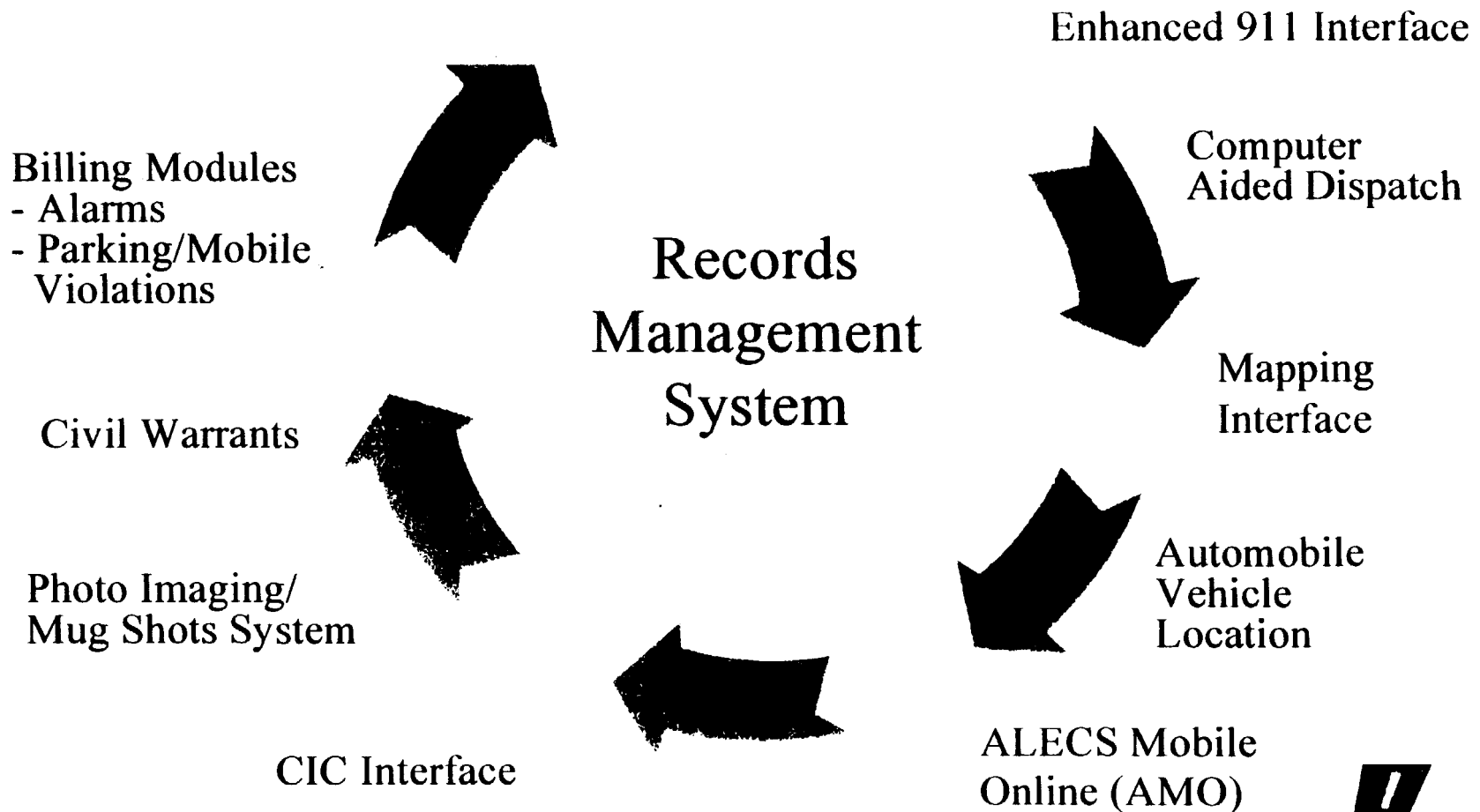
+ Wireless Communication


= **Reduced Crime**

Source: Mobile Officer - July 1995

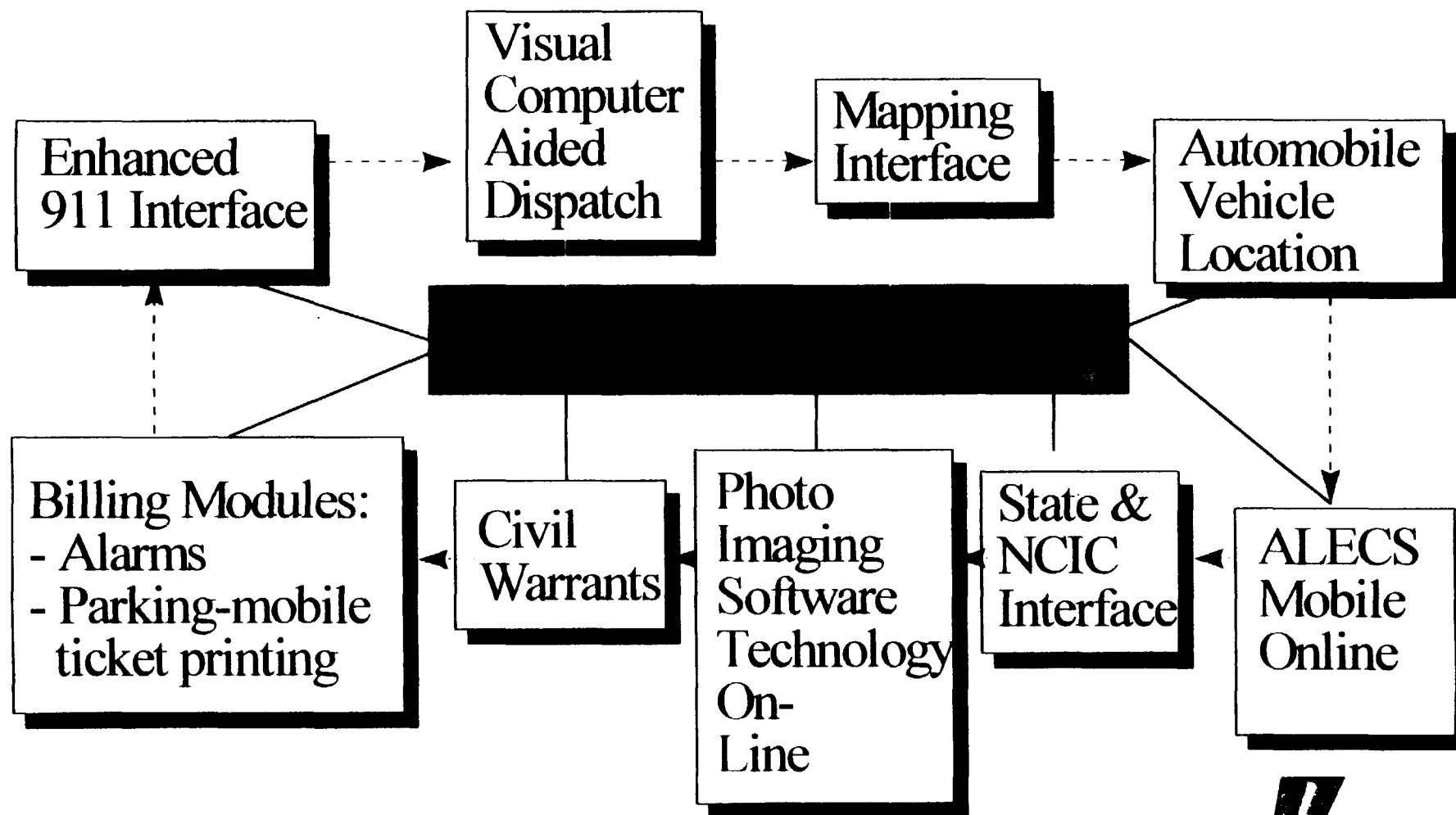


ALECS 2000 Modules



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ALECS 2000™ Modules




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ALECS 2000™

Advanced Law Enforcement Computer Solutions



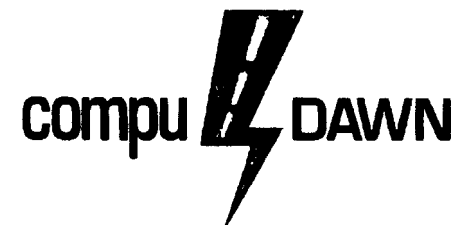
- State-of-the-art software solutions designed for public safety
- 14+ modules
- All modules interface with existing systems.
- Modules can be combined to form fully integrated solutions.

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ARMS

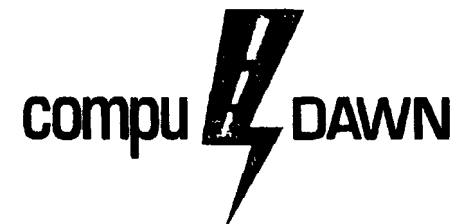
Advanced Records Management System

- Organizes, processes and retrieves data in *real-time*.
- Provides information to field personnel so they can make informed decisions and quick responses.
- Information includes: person's history, location history, warrants, hazards, firearm permits, orders of protection, alarm/emergency contacts, property registration, etc.



E-911 Interface

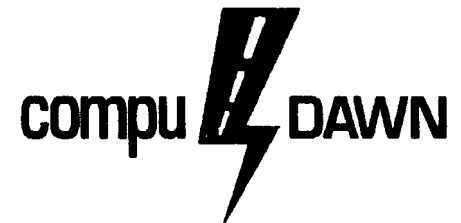
- Imports caller's name, number and location data from the telephone company.
- Retrieves any historical information on the caller or the location.
- Increased accuracy, decreased key strokes, decreased response time and increased safety.



VCAD

Visual **C**omputer **A**ided **D**ispatch

- Identifies available units.
- Assists the dispatcher in assigning resources promptly.
- Obtains information from database.
- Provides the nearest cross streets, hydrant locations, etc.
- Date/time/event numbers automatically stamped.
- Checks hazard, warrant, firearm permit, alarm, order of protection and history from databases.
- Gives call back number.
- Touch screen, full color and user friendly.



V-CAD

Visual Computer Aided Dispatch

Florida DAWN V-CAD System 2

File Options Help

Unit	Status	Elps Time	Priority	Type	Event #	Units
FR01	DISP	22:15	5	DISTURBANCE\HOU	96-000401	COAS
102	DNAK	20:24	1	ROBBERY\	97-000017	FLOW
FR01	DNAK	23:41	1	ROBBERY\	97-000017	FLOW
203	DNAK	20:47	5	DISTURBANCE\HOU	96-000401	COAS
102	ARRI	02:08	5	DISTURBANCE\HOU	96-000401	COAS
ENG1	STAR	02:41	5	DISTURBANCE\FBI	96-000403	
AMB1	LVHS	02:40	5	DISTURBANCE\HOU	96-000401	COAS

Event #	Elps Time	Priority	Type	Location
96-000404	01:11	1	ASSAULT\	COASTAL COMPUTER SY
97-000015	21:42	1	BURGLARY\	

Selected Event#
96-000403

Command

Label1

VCAD

Visual Computer Aided Dispatch

Tools

K101
AVAL
13:28

K102
AVAL
13:28

K103
AVAL
13:28

11
AVAL
13:28

13
AVAL
13:28

17
AVAL
13:28

26
AVAL
13:28

31
AVAL
13:28

32
AVAL
13:28

33
AVAL
13:28

3161
AVAL
13:28

12
AVAL
13:28

13
AVAL
13:28

50
AVAL
13:28

NEW NEW

Event # _____ Date: **11/18/96** Time: **1328** How Received: **E911**

Location **TOM'S BAKERY** Cross Street _____

Address: **44** Street: **FIRST STREET** Apt Number: _____ Post: _____

City, Town, Village: **CARMEL** Agency: **CARM** Plate #: _____ State: _____

Event Type for Police: **E911** Priority: _____ ☐ Police ☐ Fire ☐ EMS

Desc. For Police Type: _____

Name: **JOEL SMITH** Role: **CALLER**

Address: **44** Street: **FIRST STREET** Apt #: _____ AC: **914** Phone: **432-7096**

City, Town, Village: **CARMEL** State: **NY**

Command _____

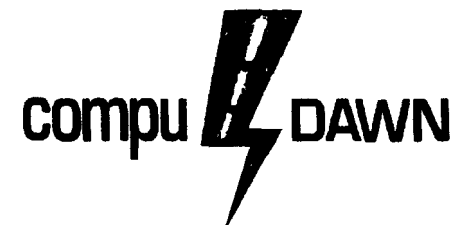
PrePlan / Units / Warnings / Notes / History / GeoInfo

File Hold E911_1

Cancel Mail Pv E911_2

Mapping Interface

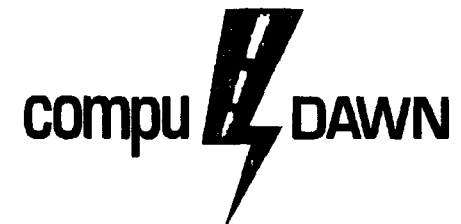
- VCAD automatically displays location of event and available units.
- Provides quicker and more effective resource deployment.
- The dispatcher can ***zoom*** the map to give greater details to responding units.
- Locations of various past events can be displayed providing crime analysis.



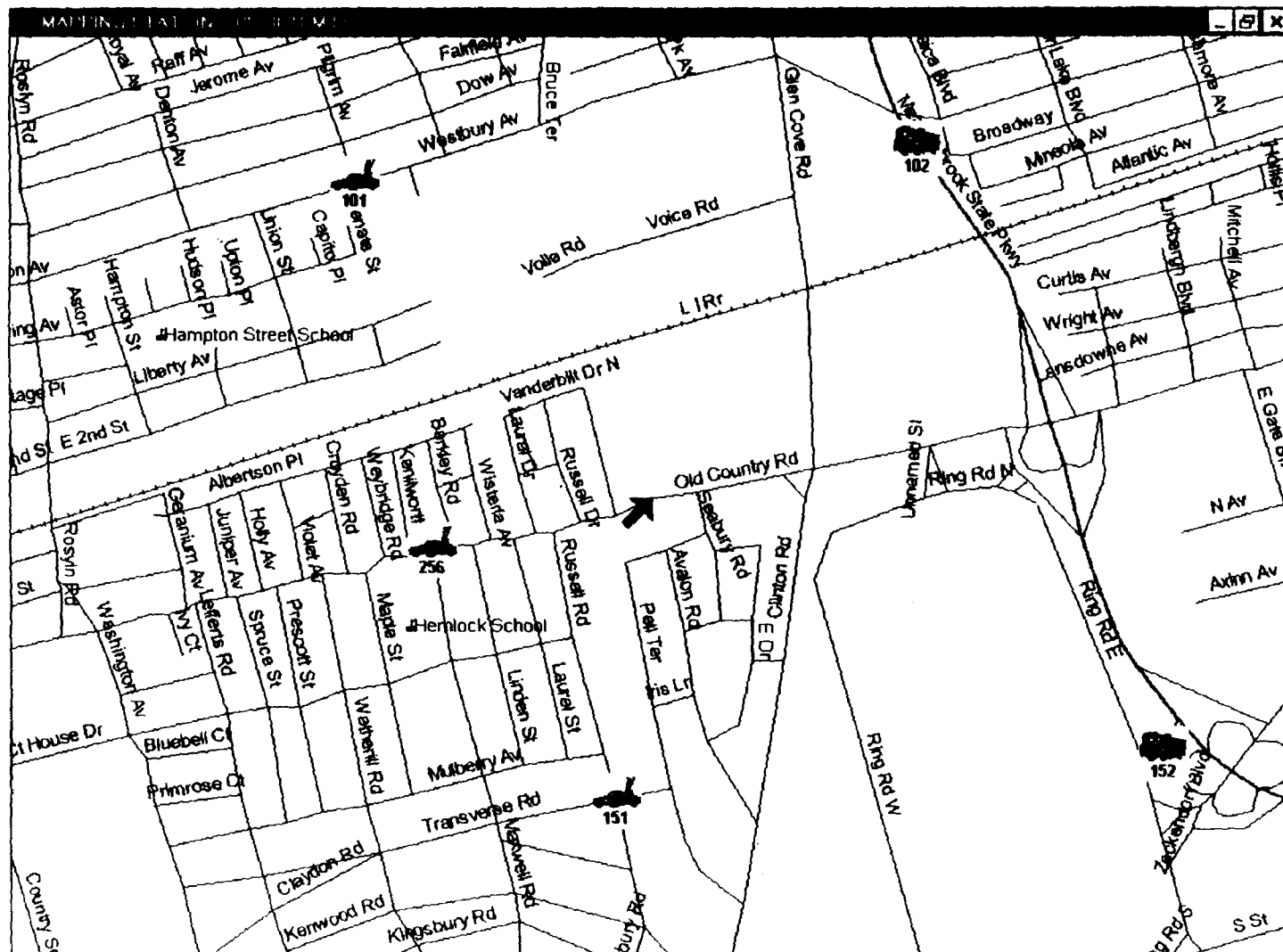
AVL

Automatic Vehicle Location

- Automatically transmits location of vehicles and event to headquarters where they are tracked visually.
- Gives management and dispatchers easy visual representation.
- Provides real-time response of vehicles to an event.
- Increases officer safety and productivity.
- Provides management with enhanced supervisory capabilities.



Automatic Vehicle Location



AMO

ALECS Mobile **O**n-line

A Virtual Office in the Car

- All files can be accessed and updated mobile.
- Messages and replies are transmitted as data; provides security and privacy.
- Text to speech and voice recognition commands.
- Photo imaging/mug shot of persons can be transmitted individually or broadcast for rapid distribution.
- DMV, state accident and incident reports can be completed and filed from the field.
- Increased officer safety and time in the field.



Local, State & NCIC Interface

- Interface to crime information databases from all workstations.
- Users are provided menu options for various inquiries: driver's information, criminal history, etc.
- Delivers responses to an AMO laptop, no need for dispatcher intervention, thus providing faster response to in-field requests.
- Frees dispatcher's time, while simultaneously giving Police Officer important information.
- Increases traffic summonses and arrests.



PISTOL

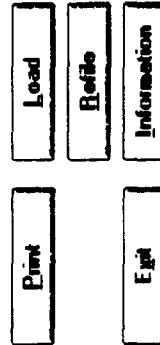
Photo Imaging Software Technology On-Line



- Enables capturing images of prisoners, property, accident and crime scenes, etc. and links them instantly to the ALECS database.
- Utilizing AMO, photos can be transmitted to the laptop computer for identification, searches, etc.
- Photos relating to a specific event can be linked, retrieved, or printed on demand, with field notes attached.
- Searches for match and physical characteristics.
- Automatic photo arrays.
- Decreases crime/impersonation and false I.D. utilization.

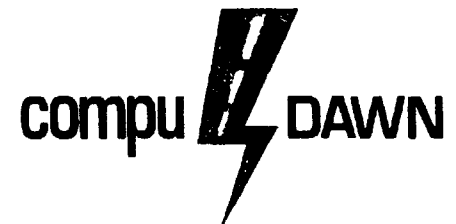
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Photo Imaging Software Technology On-Line



Civil Warrants

- Fully integrated with ARMS™.
- Provides listing of warrants by name or number.
- Alerts officer if a person has an outstanding warrant.
- Provides accuracy and saves time resulting in increased revenues.



Billing Modules

False Alarm

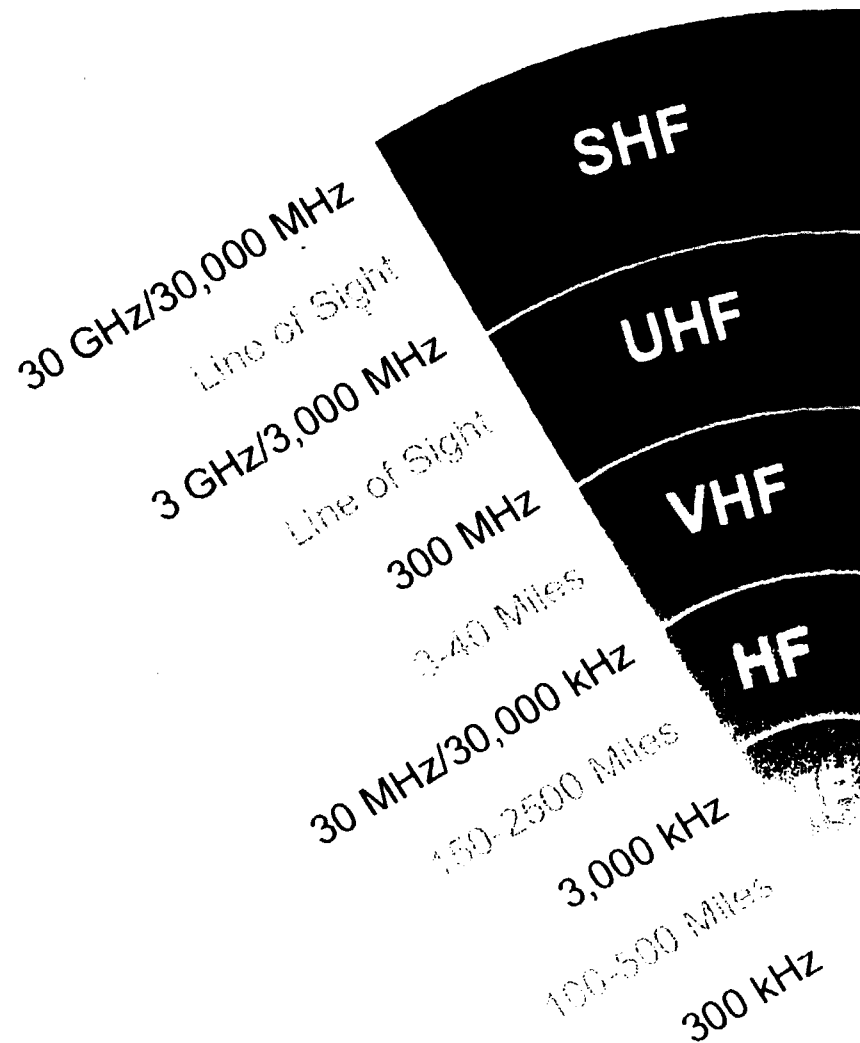
- Automates the billing process for false alarms.

Parking/Traffic Violations

- Integrated with the persons file by name and license number.
- Payments and balances are maintained.
- Dunning and scofflaw letters are created.
- Information can be transmitted to the state DMV.
- Increases efficiency and revenue for municipality.



Typical Users of the Spectrum



Satellite Systems (500 MHz)
Radars (10- 30 MHz)


Channel 20 506-512 (6 MHz; 6000 kHz)
Taxi (25 kHz)

Channel 5 72-86 (6MHz;6000 kHz)
Police, Fire, Ambulance Radio (20 kHz)

Citizens Band Radio (10 kHz)

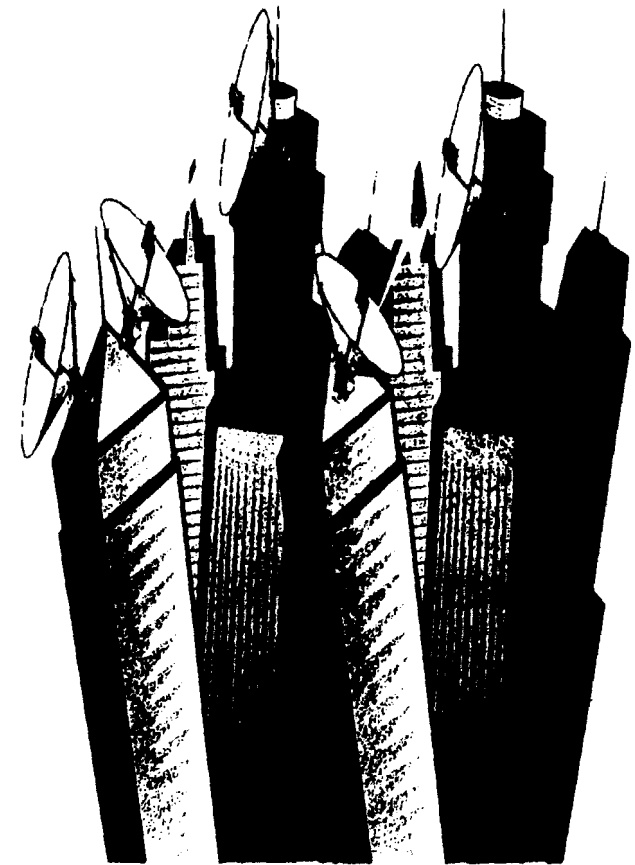
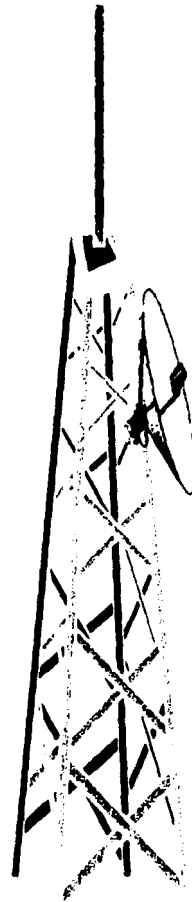
Voice Radio (3kHz)

Commercial Broadcast Band (540 - 1600 kHz)

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Spectrum Congestion Analysis

- ◆ Most Existing Public Safety bands congested; Communication bands are the most cluttered.
- ◆ More requests in the Public Safety bands.
- ◆ Spectrum Congestion causes huge coordination problem.
- ◆ Problems are compounded by sharing within same bands.



Airwaves for Public Safety

FREQUENCY 100 hertz 10,000 1 MHz 10^2 MHz 10^4 MHz 10^6 MHz 10^8 MHz 10^{10} MHz 10^{12} MHz 10^{14} MHz 10^{16} MHz

BAND

USE

Alternating Current

AM Radio

Heat Lamps

Sun Lamps

VHF Television
channels 2-6

FM radio
stations VHF Television channels 7-13

UHF television frequencies

FREQUENCY 25 MHz 100 200 300 400 500 600 700 800 900

BAND

NON-
FEDERAL
PUBLIC
SAFETY
CHANNELS

25-50 MHz
Includes 315
channels for
wide area
coverage,
mostly by state
highway patrols.

156-174 MHz
The first public safety frequencies were allocated
here; includes 242 channels.

220-222 MHz
10 channels recently
allocated, but little suitable
equipment is available.

470-512 MHz
Some unused TV channels
are available.
450-470 MHz
74 Channels.

**806-821 MHz and
851-866 MHz**
70 Channels.

**821-824 MHz and
866-869 MHz**
230 Channels
allocated in 1987.